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## SEQUENCE LISTING

&lt;110&gt; Suntory Limited

&lt;120&gt; Novel recombinant antibody, amino acid sequences of its complementarity determining regions and genes encoding the same

&lt;130&gt; YCT-588

&lt;160&gt; 19

&lt;210&gt; SEQ ID NO:1

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; mouse

&lt;220&gt;

&lt;223&gt; CDR-H1 of anti-human TNF-alpha antibody

&lt;400&gt; 1

Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn

5

10

&lt;210&gt; SEQ ID NO:2

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; mouse

&lt;220&gt;

&lt;223&gt; CDR-H2 of anti-human TNF-alpha antibody

&lt;400&gt; 2

Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe

5

10

15

Lys Gly

<210> SEQ ID NO:3

<211> 8

<212> PRT

<213> mouse

<220>

<223> CDR-H3 of anti-human TNF-alpha antibody

<400> 3

Tyr Asp Tyr Asp Gly Phe Asp Tyr

5

<210> SEQ ID NO:4

<211> 12

<212> PRT

<213> mouse

<220>

<223> CDR-L1 of anti-human TNF-alpha antibody

<400> 4

Thr Ala Ser Ser Ser Val Ser Phe Ser Tyr Leu His

5

10

<210> SEQ ID NO:5

<211> 8

<212> PRT

<213> mouse

<220>

<223> CDR-L2 of anti-human TNF-alpha antibody

<400> 5

Tyr Ser Thr Ser Asn Leu Ala Ser

5

&lt;210&gt; SEQ ID NO:6

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; mouse

&lt;220&gt;

&lt;223&gt; CDR-L3 of anti-human TNF-alpha antibody

&lt;400&gt; 6

His Gln Tyr Leu Arg Ser Pro Tyr Thr

5

&lt;210&gt; SEQ ID NO:7

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; mouse

&lt;220&gt;

&lt;223&gt; H-chain CDR region of anti-human TNF-alpha antibody

&lt;400&gt; 7

cag gtg aag ctg ctc gag tct ggg gga ggc gtg gtc cag cct ggg agg 48

Gln Val Lys Leu Leu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg

1

5

10

15

tcc ctg aga ctc tcc tgt gca gcc tct gga tac acc ttg act aac tat 96

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Asn Tyr

20

25

30

ggg atg aac tgg gtc cgc cag gct cca ggc aag ggg ttg aag tgg gtg 144

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Lys Trp Val

35

40

45

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gca tgg ata aac act tat aca ggt gag cca acc tac gca gac gac ttc 192
Ala Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe
      50              55              60
aag ggc cga ttc acc att tcc tta gac aat tcc aag aac aca gcg tat 240
Lys Gly Arg Phe Thr Ile Ser Leu Asp Asn Ser Lys Asn Thr Ala Tyr
      65              70              75              80
ctg gaa gtg aag agc ctg caa act gag gac acg ggt gtc tat tac tgt 288
Leu Glu Val Lys Ser Leu Gln Thr Glu Asp Thr Gly Val Tyr Tyr Cys
              85              90              95
gca aga tat gat tat gac gga ttt gac tac tgg ggc cag gga acc ctg 336
Ala Arg Tyr Asp Tyr Asp Gly Phe Asp Tyr Trp Gly Gln Gly Thr Leu
              100              105              110
gtc acc gtc tcc tca 351
Val Thr Val Ser Ser
              115

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&lt;210&gt; SEQ ID NO:8

&lt;211&gt; 324

&lt;212&gt; DNA

&lt;213&gt; mouse

&lt;220&gt;

&lt;223&gt; L-chain CDR region of anti-human TNF-alpha antibody

&lt;400&gt; 8

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gac gtc cag ttg acc cag tct cca tct gcc atg gct gca tct gta gga 48
Asp Val Gln Leu Thr Gln Ser Pro Ser Ala Met Ala Ala Ser Val Gly
      1              5              10              15
gac aga gtc acc atc act tgt acg gcg agt tgc agc gtt agc ttc agt 96
Asp Arg Val Thr Ile Thr Cys Thr Ala Ser Ser Ser Val Ser Phe Ser

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20	25	30	
tat ita cac tgg tat cag cag aaa cca ggg aaa gtc cct aag ctg tgg			144
Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Trp			
35	40	45	
atc tat tct aca tcc aat ttg gca agt ggg gtc cca tgc agg ttc agc			192
Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser			
50	55	60	
ggc agt gga tct ggg aca gaa tac act ctg aca atc agc agc ctg cag			240
Gly Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Ser Leu Gln			
65	70	75	80
cct gaa gat ttt gca act tat tac tgt cac cag tat ctt cgt tcc ccg			288
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro			
85	90	95	
tac act ttc ggc gga ggg acc aag gtg gag atc aaa			324
Tyr Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys			
100	105		

&lt;210&gt; SEQ ID NO:9

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer L1

&lt;400&gt; 9

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&lt;210&gt; SEQ ID NO:10

&lt;211&gt; 54

<212> DNA

<213> Artificial Sequence

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<223> Primer L2

<400> 10

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<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer L3

<400> 11

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<210> SEQ ID NO:12

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer L4

<400> 12

tgtgagagtg tattctgtcc cagatccact 30

<210> SEQ ID NO:13

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer L5

<400> 13

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39

<210> SEQ ID NO:14

<211>

<212> DNA

<213> Artificial Sequence

<220> 20

<223> Primer L6

<400> 14

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<210> SEQ ID NO:15

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer H1

<400> 15

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<210> SEQ ID NO:16

<211> 39

<212> DNA

<213> Artificial Sequence



<220>

<223> Primer H2

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gacccagttc ataccatagt tagtgaaggt gtatccaga

39

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<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer H3

<400> 17

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<210> SEQ ID NO:18

<211> 48

<212> DNA

<213> Artificial Sequence

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<223> Primer H4

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<210> SEQ ID NO:19

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer H5

<400> 19

icccctggccc cagtagtcaa atccgicata atcatatctt gcacagta

48